	CE	NTRACUNELUENIA	N-RDP82-00457R001900360001-5 50X1-F
		DRMATSECRET	
MTRY	Germany (Hussian Zo	one)	DATE DISTR Authorities 18
JECT	Delivery and Manufa	cturing Program at	NO. OF PAGES 3
	Oberspreewerk; Deve	lopment of Magnetron O	SW 2585
E UIRED			NO. OF ENCLS.
		50	OX1-HUM
Ξ Ã.			SUPPLEMENT REPORT NO.
•			
OCUMENT E UNITED	CONTAINS INFORMATION AFFECTING THE NATIONAL STATES WITHIN THE MEANING OF THE ESTATES WITHIN THE MEANING SIGN OF THE SERVICE OF	ONAL DEFENSE THIS IS UNLVA	LUATED INFORMATION FOR THE RESEARCH
CONTENTS	STATES WITHIN THE MEANING OF THE ESPH 32. AS AMERIDED. ITS TRANSMISSION OR TH 5 IN ANY HAMMER TO AN HANDHORIZED PE 5 REPRODUCTION OF THIS FORM IS PROMIS ION CONTAINED IN BODY OF THE FORM MAY	RISON IS PRO-	TRAINED INTELLIGENCE ANALYSTS
FMED WEEL	ESSAN BY THE RECEIVING AGENCY.	1000	50X1-H
			,
1.	The following is the	delivery and manufact eewerk for July 1948:	uring program for the experimental
		•	
,	Amplifier and Transm		Decument No.
	OSW 2540 (20 cm) " 2585	20 "Aufbauten"	NO CHANGE in Class.
	05= 2021 (5 D 21)		DECHASSIVIED Class. CHANGED TO: TS & C
•	osv 2584	20 "	DDA Memo, 4 Apr 77
	(Diode 10 cm) OS: 2092	80 "	Auth: 4/5/78
	" 2432 (LG11) " 2013 (723 A/B	30 "	10 bileces
	RS 255	6 "	30 " P 20m\" 50X1-H
	Inare Tubes		
	0SW 2047	5 "	
	" 2333 " 2586 (7")	5 " " "	/00 II 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	" 2390 (9")	120 "	400 " Order of 31 May 49 pieces
	" 2391 (12") " 2066	35 "	13 "
	" 2068b " 2068bn	6 "	5 "
	" 2144	10 "# 10 "Bed	dampfer" 2 pieces 5 "
	" 2205		2
	Discharge Tubes		
	OSW 2452		5 pieces VI.
	" 2825 " 2544	· · · · · · · · · · · · · · · · · · ·	6 " 15 " VH
	" 2544 " 2455	5 "Aufbauten" 10 "	
	" 2460	10 "	
	11 256/	5 "	•
	" 2564	`	
	2,04	TION	
STATE	CLASSIFICA	TION SECURITY CONTROL -	- U.S. OFFICIALS ONLY
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	CLASSIFICA		U.S. OFFICIALS ONLY  50X1-H

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50X1-HUM

Specta	100	71.1.
obeca	LB	luces

OSW 2523 " 2524 " 2498	Experimental work	70 15	pieces "
" 2499 JE 50		55	17
01/ 00/		7	15

### Spectral Tubes

037	2530				8	pieces	/ Vir
19	2531		•		1 15		
**	2532				ĺ	#  1	Vī:
FF	2533				15 1	17	VM
18				. *	10 5	11. ()	
"	2534				20	#	
					1	11	

## Stabilizers and Rectifiers

	2447 2450			75 50	"Aufbauten"	50	11	V!!
11	2549			25	, H			

Delivery program for the factory for July 1948.

## Amplifier Tubes

0577	2190					dooo	•		
71	2192						pieces		
11	2600	(made	like	OST	2190)	1000	71		
11	2601	( "	Ħ	17	2192)	numbe	r depending	on	outcome

# Metal Ceramic Tubes

OSW	2008					
		4			200 -	pieces
"	<b>20</b> 06					P=0000
11	2568	(Ln 6)			140	47
	<b>L</b> J()()	(711, 6)			30	IT

### Transmitter Tubes

TS 41	50	Ħ
Bolometers and Leasuring Tubes		

Actor	0000		
OSW	2090		-
11	2007		20

OSW	2090				
	2094		20	Ħ	
			30	11	
**	2183		-		
		•	80	- 11	

## Stabilizers

STA	150/20					
B. T.	130/20				1.00	17
	280/40				300	11
12	280/40	Hz				
	.407.40				20	11

## Rectifier Tubes

2 2 2 4 4				
S 0, 35/0,6 d S 1/0,2II a		5	It	
5 5/1 a		30	11	
N 190/10	3 **	16	1t	
N 190/20		12	11	
11 1907 20		12	H	

#### <u>Valves</u>

77 B B B A A A A A A A A A A A A A A A A			
V 150/502 p		100	"
V 150/1202 p		100	
V 230/802 p	65 45 FF	25	15
* 2007002 p	CFCDFT	25	î:

25 St.

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Other

"Pulverröhrchensicherungen"

1000 pieces

## 3. State of development of magnetron OST 2525 on 3 July 1948.

- a) At the end of June the first two models were received. A change had been made in the original plans. According to the second specification 10 4, the cone of the anode segments was to have at the top a diameter of 2 mm. and the cone was to have an incline of 7° 30°. In the experimental models the diameter at the top was 1.8 mm. and the incline 2°. The total height of the cone was reduced from 6 to 5 mm. The purpose of this change was to decrease the capacity of the opposite anode segment in order to create more favorable conditions for the excitation of the shorter waves.
- b) In both tubes a long disturbing wave (Storwelle) was noticedile at a wave length of approximately 4 - 5 cm. At one of the tubes there was another such wave at 2.4 cm. wave length which, however, was very weak. This was the harmonic wave of a fundamental oscillation at 4.8 cm. wave length. It was not possible to receive a shorter wave with these two experimental models. This was apparently for two reasons. 1) To obtain a short wave the anode voltage must be about 1800 volts. The anode voltage could, however, be raised only to about 800 volts, since at a higher anode plage the intensity of the long disturbing waves was so great and the positive ion hombardment of the filament became so strong that the heating filaments risked being destroyed. 2) On opening the tubes it was observed that the inside of the ceramic part had been covered so extensively with copper vapors that no energy could radiate into the connected circuit system. New models are now being produced, in which the anode section has two built-in screen parts to prevent formation of the long disturbing wave. Especial attention is given to the technological preliminary treatment and the pump process, in order to prevent a new gassing of the ceramic parts.

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